IN THE CLAIMS:

Please amend the claims as follows:

1-23. (Cancelled)

24. (Previously Presented): A method of forming a metal layer on a substrate, comprising:

positioning a substrate in an electroplating cell having a porous pad and an electrolyte solution therein;

contacting at least a portion of the substrate to the porous pad;

forming a metal layer on the substrate by biasing the substrate relative to an electrode at a first electrical bias and then biasing the substrate relative to the electrode at a second electrical bias, wherein the first electrical bias deposits metal on the substrate and the second electrical bias removes metal from the substrate; and

varying the magnitude of the second electrical bias relative to the first electrical bias as the metal layer is formed.

25. (Cancelled)

- 26. (New) The method of claim 24, wherein the second electrical bias removes metal from the contacted portions of the substrate.
- 27. (New) The method of claim 24, wherein the substrate and the porous pad move relative to one another during metal layer formation.
- 28. (New) The method of claim 24, wherein the metal layer comprises copper (Cu), tungsten (W), nickel (Ni), aluminum (Al), gold (Au), silver (Ag), or combinations thereof.
- 29. (New) The method of claim 24, wherein the porous pad contacts portions of the substrate with a pressure in a range of about 0.1 psi and about 5 psi.

- 30. (New) The method of claim 24, wherein the electrolyte solution comprises one or more materials selected from the group consisting of water, pH adjusting agents, and metallic species.
- 31. (New) The method of claim 24, wherein the first electrical bias has an opposite polarity from that of the second electrical bias.
- 32. (New) The method of claim 24, wherein the first electrical bias and the second electrical bias are alternately applied to the substrate relative to the electrode within a range of about 5 volts to about 5 volts.
- 33. (New) The method of claim 24, wherein the first electrical bias and the second electrical bias are alternately applied to the electrode for differing time periods.
- 34. (New) The method of claim 24, wherein the first electrical bias applied relative to the electrode is within a range of about 0 volts to about +5 volts and the second electrical bias applied relative to the electrode is within a range of about 0 volts to about -5 volts are alternately applied.